

**Amendments to the Specification:**

Please amend the title as follows:

**--IMPROVED PROCESS PROCESSES FOR THE SYNTHESIS OF  
2'-O-SUBSTITUTED PYRIMIDINES AND OLIGOMERIC COMPOUNDS  
THEREFROM--.**

Please amend the paragraph at page 1, lines 1-9 of the specification as follows:

**--CROSS REFERENCE TO RELATED APPLICATIONS**

This application is a divisional application of United States application serial number 09/747,009, filed December 22, 2000, which is a continuation of United States application serial number 08/894,899, filed January 7, 1998, now issued as United States Patent number 6,222,025, which is the National Stage of International Patent Application PCT/US96/03174, filed March 6, 1996 and a continuation-in-part of United States application serial number 08/475,467, filed June 7, 1995, now issued as United States Patent number 5,760,202, also identified by attorney docket number ISIS-1965 which is a continuation-in-part of United States application serial number 08/398,901, filed March 6, 1995, now issued as United States Patent number 6,166,197 also identified by attorney docket number ISIS-0719. The contents of the foregoing patent applications are incorporated herein by reference.--

Please amend Table 1 on page 60, lines 1-16 of the specification as follows:

Table 1

Modified oligoribonucleotide sequences used in nuclease studies

2'-O-substitution	backbone	17-mer	12-mer
2'-deoxy	P=O	SEQ ID NO:1	SEQ ID NO:6
methyl	P=O	SEQ ID NO:2	SEQ ID NO:7
propyl	P=O	SEQ ID NO:3	SEQ ID NO:8
pentyl	P=O	SEQ ID NO:4	SEQ ID NO:9
2'-deoxy	P=S	SEQ ID NO:5	SEQ ID NO:10

17-mer: 2'-deoxy (P=O)      5' GGA CCG GAA GGTACGA 3' (**SEQ ID NO:1**)  
methyl                            5' GGA CCG GAA GGU ACG AG 3' (**SEQ ID NO:2**)

propyl		5' <u>GGA CCG GAA GGU ACG AG</u> 3' ( <u>SEQ ID NO:3</u> )
pentyl		5' <u>GGA CCG GAA GGU ACG AG</u> 3' ( <u>SEQ ID NO:4</u> )
2'-deoxy	(P=S)	5' <u>GGA CCG GAA GGT ACG AG</u> 3' ( <u>SEQ ID NO:5</u> )
12-mer:all		5' <u>CUA AGC AUG UCA</u> 3' ( <u>SEQ ID NO:6</u> )

underlined = 2'-modified residues

Please amend the paragraph spanning page 64, lines 26 to page 65, line 13 as follows:

--Sequences studied:

SEQ ID NO:		15-mers	sequence
12		2'-deoxy	<u>CoGoAoCoToAoToGoCoAoAoGoToAoC</u>
13	<b>methy methyl</b>		<u>CoGoAoCoToAoToGoCoAoAoGoToAoC</u>
14		propyl	<u>CoGoAoCoToAoToGoCoAoAoGoToAoC</u>
15		pentyl	<u>CoGoAoCoToAoToGoCoAoAoGoToAoC</u>
16		RNA	<u>CoGoAoCoToAoToGoCoAoAoGoToAoC</u>
		17-mers	
17		2'-deoxy	<u>GoGoAoCoCoGoGoAoAoGoGoToAoCoGoAoG</u>
18	<b>methy methyl</b>		<u>GoGoAoCoCoGoGoAoAoGoGoUoAoCoGoAoG</u>
19		propyl	<u>GoGoAoCoCoGoGoAoAoGoGoUoAoCoGoAoG</u>
20		pentyl	<u>GoGoAoCoCoGoGoAoAoGoGoUoAoCoGoAoG</u>
21		RNA	<u>GoGoAoCoCoGoGoAoAoGoGoToAoCoGoAoG</u>
		18-mers	
22		2'-deoxy	<u>TsGsGsGsAsGsCsCsAsTsAsGsCsGsAsGsGsC</u>
23	<b>methy methyl</b>		<u>TsGsGsGsAsGsCsCsAsTsAsGsCsGsAsGsGsC</u>
24		propyl	<u>TsGsGsGsAsGsCsCsAsTsAsGsCsGsAsGsGsC</u>
25		pentyl	<u>TsGsGsGsAsGsCsCsAsTsAsGsCsGsAsGsGsC</u>
26		RNA	<u>TsGsGsGsAsGsCsCsAsTsAsGsCsGsAsGsGsC</u>

underlined = 2' modified residue; o =

phosphodiester linkage; s = phosphorothioate linkage--

Please amend the paragraph at page 72, lines 9-16 of the specification as follows:

--For the construction of the pSG5-rev plasmid, which expresses rev protein both in mammalian cells of *in vitro* with T7 RNA polymerase, an EcoRI/BglII rev cDNA was prepared by PCR from pCV1. The PCR fragment was cut with EcoRI and BglII and subcloned into the Eco/RI/BglII sites of the vector pSG5 (Stratagene). The PCR primers were:

**DOCKET NO.: ISIS-5320**

**PATENT**

**Application No.: To be assigned**

**Preliminary Amendment - First Action Not Yet Received**

**5'-GCT CGG GAA TTC ATG GCA GGA AGA AGC GGA (SEQ ID NO:30)**

**5'-CTG GGA GAT CTC TAT TCT TTA GCT CCT GAC TC (SEQ ID NO:31).--**

Please delete the Sequence Listing at pages 76-81 of the specification.